

Experiment 1

NAME: KALAIYARASI.M

ROLL NO: 231901503

Aim:

To study the basics of computer forensics and explore different tools used in forensic investigations.

Procedure:

- Understand the fundamental concept of Digital Forensics, which involves identifying, collecting, examining, analyzing, and presenting digital evidence. Learn about various phases of digital forensics and the international legal framework of cybercrime. Explore the forensics environment including hardware and software, storage devices, operating systems, file systems, metadata, password security, encryption, and hidden files. Discuss the technical complexities involved in digital evidence handling. Study popular forensic tools including: Commercial suites like EnCase, Forensic Tool Kit (FTK), and ProDiscover. Open-source forensic suites like The Sleuth Kit (TSK), Helix, and Knoppix. Field tools like FTK Imager, Log Parser Lizard GUI, and Autopsy forensics platform. Gain conceptual knowledge on how these tools are used for forensic imaging, data recovery, and forensic investigations.
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Result:

- Successfully understood the theoretical foundation and environment of digital forensics.
- Familiarized with multiple forensic tools commonly used by professionals.
- Gained an overview of evidence collection, the importance of forensically sound imaging, and challenges in analyzing digital evidence.
- Enhanced preparedness for practical forensic investigations by understanding the capabilities and applications of key forensic tools.